A silicone rubber adhesive composition comprising:

- A. 100 parts by weight of an organopolysiloxane having an average of two or more alkenyl groups per molecule;
- B. an organopolysiloxane having an average of two or more silicon bonded hydrogen atoms in each molecule, in an amount such that the molar ratio of silicon bonded hydrogen atoms in component B to alkenyl groups in component A is from 0.01 to 20;
- C. from 5 to 200 parts by weight of a calcium carbonate powder selected from the group consisting of:
 - (i) untreated calcium carbonate;
 - (ii) calcium carbonate treated with an organic acid and,
- (iii) calcium carbonate treated with an ester of an organic acid, said calcium carbonate powder having a BET specific surface area of from 5 to 50 m^2/g ; and
- D. a platinum-based catalyst, in an amount sufficient to effect curing of the composition.

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